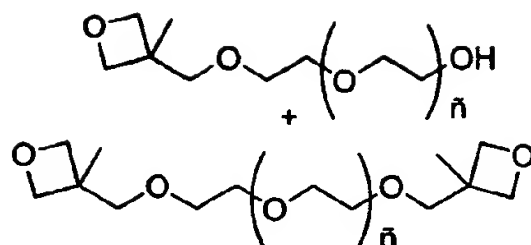
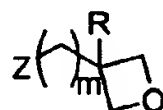


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where $\bar{n} = 6-300$ where m is an integer of 1-10, and R is H or alkyl or aryl or arylalkyl.

6. (Amended) A process for the preparation of the macromonomers of claim 1 comprising reacting an alkali metal derivative of a polyethylene glycol having 6-300 repeating units with a halo substituted compound having the formula:

where Z is Cl, Br, I, toluenesulfonyloxy or CF_3SO_3 and where m is an integer of 1-10, and R is H or alkyl or aryl or arylalkyl

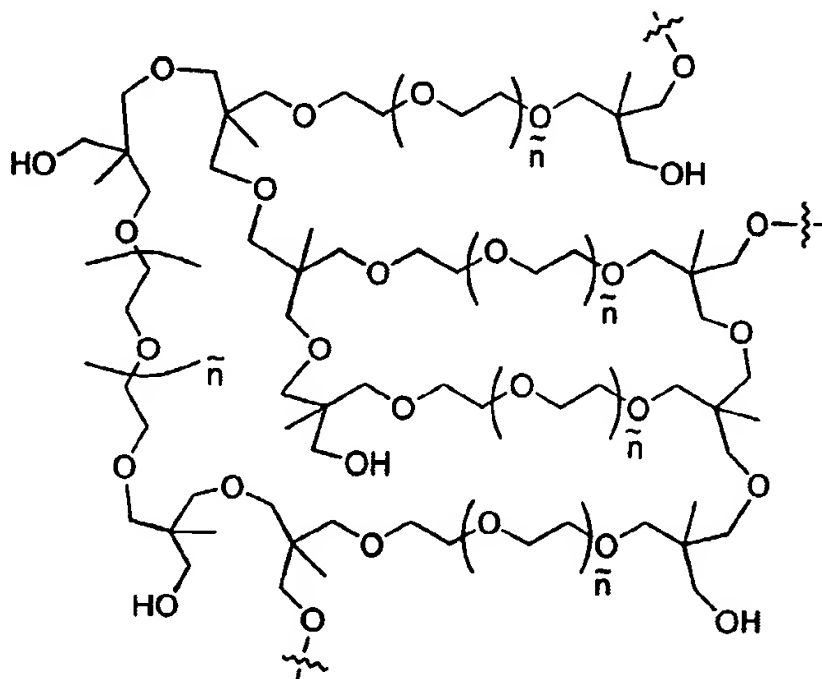
8. (Amended) A process according to claim 6 wherein the alkali metal derivative is a sodium derivative.

9. (Amended) A process according to claim 6 wherein the alkali metal derivative is a potassium derivative.

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10. (Amended) A cross linked polymer formed by the polymerization of a macromonomer according to claim 2.

11. (Amended) A cross linked polymer formed by the polymerization of a macromonomer that has the structure claimed in claim 4, formed by the polymerization wherein the polymerization is initiated by a cationic catalyst and formed by the polymerization of a macromonomer the structure of the polymer is represented by the structure:



where $\bar{n} = 6-300$

R is H or alkyl or aryl or arylalkyl.

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12. (Amended) A crosslinked polymer and formed by the polymerization of a macromonomer that has the structure of claim 5.

14. (Amended) A beaded resin comprised of a polymer according to claim 10.

31. (Amended) A polymer according to claim 10 wherein the polymerization involves a short temporary crosslinker.

Please add the following new claim:

34. (New) A process for the preparation of the macromonomers of claim 2 comprising reacting an alkali metal derivative of a polyethylene glycol having 6-300 repeating units with a halo substituted compound having the formula:



where Z is Cl, Br, I, toluenesulfonyloxy or CF_3SO_3

and where m is an integer of 1-10, and R is H or alkyl or aryl or arylalkyl